

# Operation RubyThroat

## Ruby-throated Hummingbird (RTHU)

### Site Definition

### Data Sheet



Date: \_\_\_\_\_  
 School Name: \_\_\_\_\_  
 Class or Group Name: \_\_\_\_\_  
 Name(s) of Student(s) Filling in Data Sheet: \_\_\_\_\_


Site Name (give your site a unique name): \_\_\_\_\_  
 Coordinates Latitude: \_\_\_\_\_ ☐ N ☐ S Longitude: \_\_\_\_\_ ☐ E ☐ W  
 Elevation: \_\_\_\_\_ meters  
 Source of Location Data (check one): ☐ GPS ☐ Other: \_\_\_\_\_  
 Nearest Atmospheric Site: ATM- \_\_\_\_\_

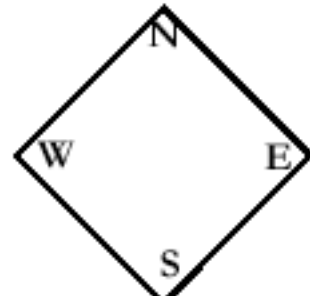
Distance to ATM Site: \_\_\_\_\_ meters  
 Direction to ATM Site: ☐ N ☐ NE ☐ E ☐ SE ☐ S ☐ SW ☐ W ☐ NW  
 Elevation Difference (Soil Moisture Site Minus Hummingbird Site): \_\_\_\_\_ meters  
 (value may be positive or negative)

Check If Present At Site: ☐ Hummingbird Feeder ☐ Flowers ☐ Hummingbird Nest  
 If flowers are present, record the following (use additional sheets if needed):

GENUS	SPECIES	COMMON NAME

## Photo Number and Orientation





Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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\_\_\_\_\_

# Operation RubyThroat

## Hummingbird Sighting Protocol

### Data Sheet



School Name: \_\_\_\_\_

Class or Group Name: \_\_\_\_\_

Name(s) of Student(s) Filling in Data Sheet: \_\_\_\_\_

Site Name: \_\_\_\_\_

	NUMBER OF HUMMINGBIRDS OBSERVED					
DATE:						
OBSERVATION START TIME:						
OBSERVATION END TIME:						
Adult Male (red throat) March-October						
Adult Female (white throat) March & April only						
Undetermined Sex (could be male or female of any age) May-October						
Young Male (throat streaked in green or black and/or one or more red throat feathers) May-October						
Unusual Hummingbirds (identify whether color- marked or unusual RTHU, or vagrant species)						

For a single sighting of a hummingbird, “start” and “end” times are the same. If no hummingbirds are seen, record “0” on the data sheet above and enter “0” on the data entry page on the GLOBE Web site. If possible, for any “unusual” hummingbird (i.e., one with “abnormal” plumage, one that is color-marked, or one that is a vagrant species), record in the data entry page’s *Metadata* section the color of the bird’s forehead, crown, throat, breast, belly, flanks, back, tail, bill, and eyes, and the location of other distinct markings. Also be sure to report “unusual” hummingbirds directly to [research@hiltonpond.org](mailto:research@hiltonpond.org) as soon as possible after sighting.

Comments: \_\_\_\_\_

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# Operation RubyThroat

## Ruby-throated Hummingbird (RTHU)

### Feeder Visit Protocol

### Data Sheet



School Name: \_\_\_\_\_

Class or Group Name: \_\_\_\_\_

Name(s) of Student(s) Filling in Data Sheet: \_\_\_\_\_

Site Name: \_\_\_\_\_

	NUMBER OF FEEDER VISITS					
DATE:						
OBSERVATION START TIME:						
OBSERVATION END TIME:						
Adult Male (red throat) March-October						
Adult Female (white throat) March & April only						
Undetermined Sex (could be male or female of any age) May-October						
Young Male (throat streaked in green or black and/or one or more red throat feathers) May-October						
Unusual Hummingbirds (identify whether color- marked or unusual RTHU, or vagrant species)						

Observations are made in 45-minute time blocks. If no hummingbirds are seen, record “0” on the data sheet above and enter “0” on the data entry page on the GLOBE Web site. If possible, for any “unusual” hummingbird (i.e., one with “abnormal” plumage, one that is color-marked, or one that is a vagrant species), record in the data entry page’s *Metadata* section the color of the bird’s forehead, crown, throat, breast, belly, flanks, back, tail, bill, and eyes, and the location of other distinct markings. Also be sure to report “unusual” hummingbirds directly to [research@hiltonpond.org](mailto:research@hiltonpond.org) as soon as possible after sighting.

Comments: \_\_\_\_\_

\_\_\_\_\_

# Operation RubyThroat

## Ruby-throated Hummingbird (RTHU)

### Flower Visit Protocol

### Data Sheet



School Name: \_\_\_\_\_

Class or Group Name: \_\_\_\_\_

Name(s) of Student(s) Filling in Data Sheet: \_\_\_\_\_

Site Name: \_\_\_\_\_

	NUMBER OF FLOWER VISITS					
DATE:						
OBSERVATION START TIME:						
OBSERVATION END TIME:						
Adult Male (red throat) March-October						
Adult Female (white throat) March & April only						
Undetermined Sex (could be male or female of any age) May-October						
Young Male (throat streaked in green or black and/or one or more red throat feathers) May-October						
Unusual Hummingbirds (identify whether color- marked or unusual RTHU, or vagrant species)						

Observations are made in 45-minute time blocks. If no hummingbirds are seen, record “0” on the data sheet above and enter “0” on the data entry page on the GLOBE Web site. If possible, for any “unusual” hummingbird (i.e., one with “abnormal” plumage, one that is color-marked, or one that is a vagrant species), record in the data entry page’s *Metadata* section the color of the bird’s forehead, crown, throat, breast, belly, flanks, back, tail, bill, and eyes, and the location of other distinct markings. Also be sure to report “unusual” hummingbirds directly to [research@hiltonpond.org](mailto:research@hiltonpond.org) as soon as possible after sighting.

Comments: \_\_\_\_\_

# Operation RubyThroat

## Ruby-throated Hummingbird (RTHU)

### Feeder vs. Flower Visit Protocol

### Data Sheet



School Name: \_\_\_\_\_

Class or Group Name: \_\_\_\_\_

Name(s) of Student(s) Filling in Data Sheet: \_\_\_\_\_

Site Name: \_\_\_\_\_

	NUMBER OF VISITS					
DATE:						
OBSERVATION START TIME:						
OBSERVATION END TIME:						
Adult Male (red throat) March-October	Feeder					
	Flower					
Adult Female (white throat) March & April only	Feeder					
	Flower					
Undetermined Sex (could be male or female of any age) May-October	Feeder					
	Flower					
Young Male (throat streaked in green or black and/or one or more red throat feathers) May-October	Feeder					
	Flower					
Unusual Hummingbirds (identify whether color- marked or unusual RTHU, or vagrant species)	Feeder					
	Flower					

Observations are made in 45-minute time blocks. If no hummingbirds are seen, record “0” on the data sheet above and enter “0” on the data entry page on the GLOBE Web site. If possible, for any “unusual” hummingbird (i.e., one with “abnormal” plumage, one that is color-marked, or one that is a vagrant species), record in the data entry page’s *Metadata* section the color of the bird’s forehead, crown, throat, breast, belly, flanks, back, tail, bill, and eyes, and the location of other distinct markings. Also be sure to report “unusual” hummingbirds directly to [research@hiltonpond.org](mailto:research@hiltonpond.org) as soon as possible after sighting.

Comments: \_\_\_\_\_

# Operation RubyThroat

## Ruby-throated Hummingbird (RTHU)

### Flower Species Visit Protocol

### Data Sheet



School Name: \_\_\_\_\_

Class or Group Name: \_\_\_\_\_

Name(s) of Student(s) Filling in Data Sheet: \_\_\_\_\_

Site Name: \_\_\_\_\_

Observation START Time: \_\_\_\_\_ Observation END Time: \_\_\_\_\_

FLOWER NAME	NUMBER OF FLOWER VISITS, by species			
GENUS:				
SPECIES:				
Adult Male (red throat) March-October				
Adult Female (white throat) March & April only				
Undetermined Sex (could be male or female of any age) May-October				
Young Male (throat streaked in green or black and/or one or more red throat feathers) May-October				
Unusual Hummingbirds (identify whether color- marked or unusual RTHU, or vagrant species)				

Observations are made in 45-minute time blocks. If no hummingbirds are seen, record "0" on the data sheet above and enter "0" on the data entry page on the GLOBE Web site. If possible, for any "unusual" hummingbird (i.e., one with "abnormal" plumage, one that is color-marked, or one that is a vagrant species), record in the data entry page's *Metadata* section the color of the bird's forehead, crown, throat, breast, belly, flanks, back, tail, bill, and eyes, and the location of other distinct markings. Also be sure to report "unusual" hummingbirds directly to [research@hiltonpond.org](mailto:research@hiltonpond.org) as soon as possible after sighting.

Comments: \_\_\_\_\_

# Operation RubyThroat

## Ruby-throated Hummingbird (RTHU)

### Nesting Report Protocol

### Data Sheet



School Name: \_\_\_\_\_

Class or Group Name: \_\_\_\_\_

Name(s) of Student(s) Filling in Data Sheet: \_\_\_\_\_

Site Name: \_\_\_\_\_

Date Nest Was Found: \_\_\_\_\_

Check One: ☐ 1st set of eggs at this nest

☐ 2nd set of eggs at this nest

☐ 3rd set of eggs at this nest

Record dates for the following observations. It is possible you will not observe all activities listed.

OBSERVATION	DATE
Start of Nest Construction	
End of Nest Construction	
First Sighting of Adult Female on Nest	
Laying of First Egg	
Laying of Second Egg	
First Egg Hatched	
Second Egg Hatched	
When First Nestling Leaves the Nest	
When second Nestling Leaves the Nest	
Last Sighting of Adult Female on Nest	

Number of eggs laid: \_\_\_\_\_

Number of eggs that did not hatch: \_\_\_\_\_

Number of nestlings that survived: \_\_\_\_\_

Record dates and observations of adult male RTHU behavior at the nest: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_